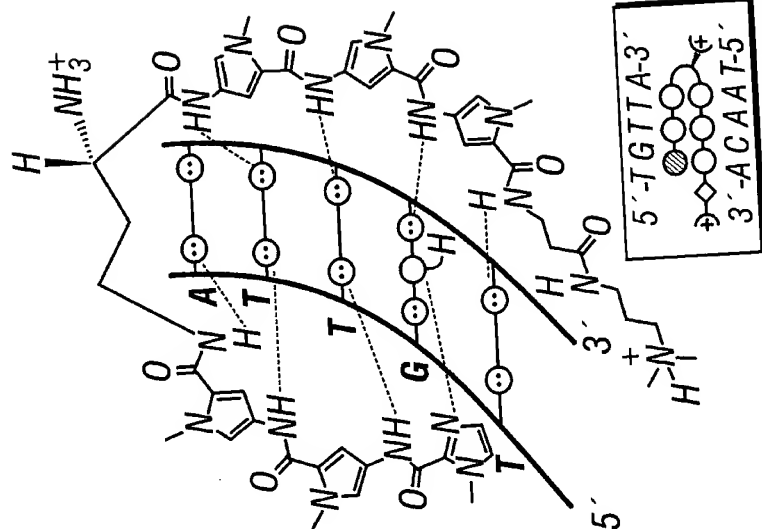


FIG.	
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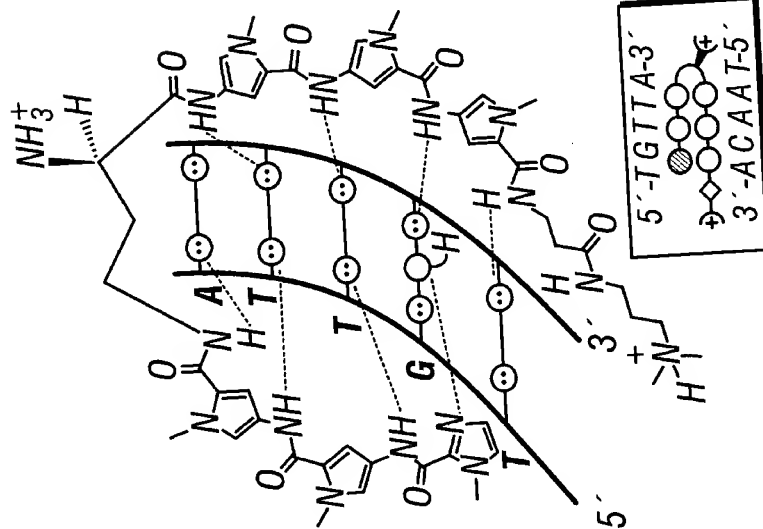


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ImPyPy-(S)H<sub>2</sub>N-γ-PyPyPy-β-Dp-5'-TGTTA-3'

FIG. 1B



ImPyPy-(R)H<sub>2</sub>N-γ-PyPyPy-β-Dp-5'-TGTTA-3'

FIG. 1A



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FIG.	CLASS
2A	2A
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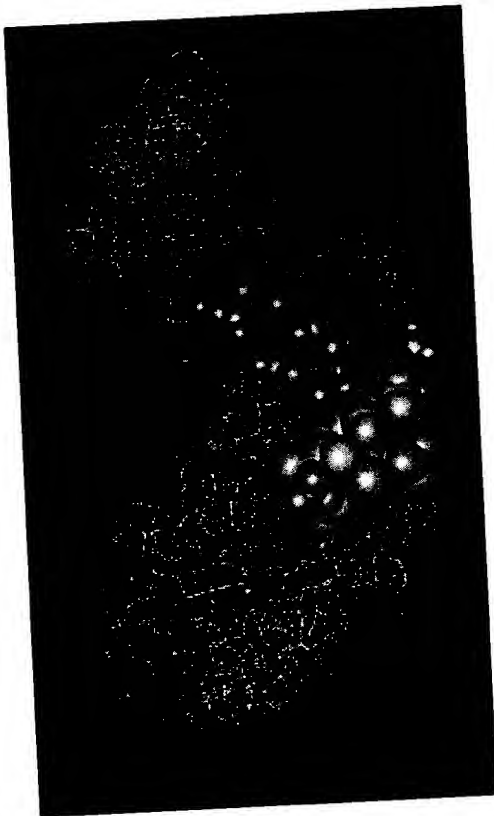


FIG. 2A

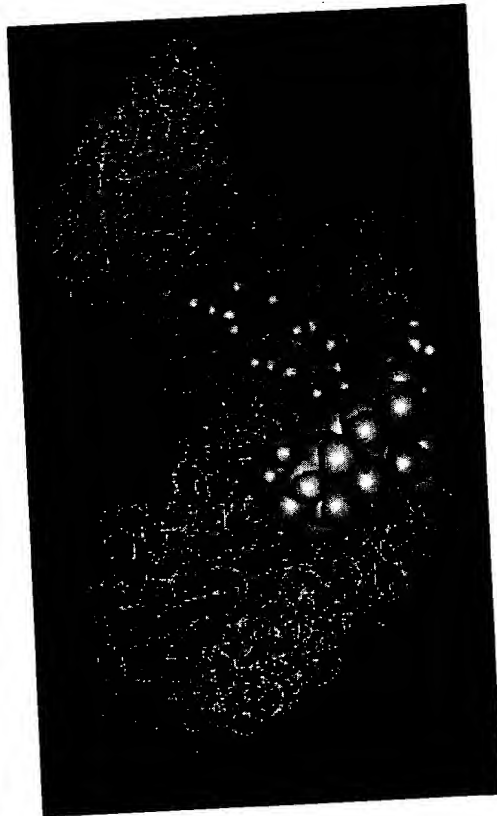
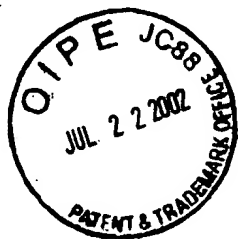


FIG. 2B



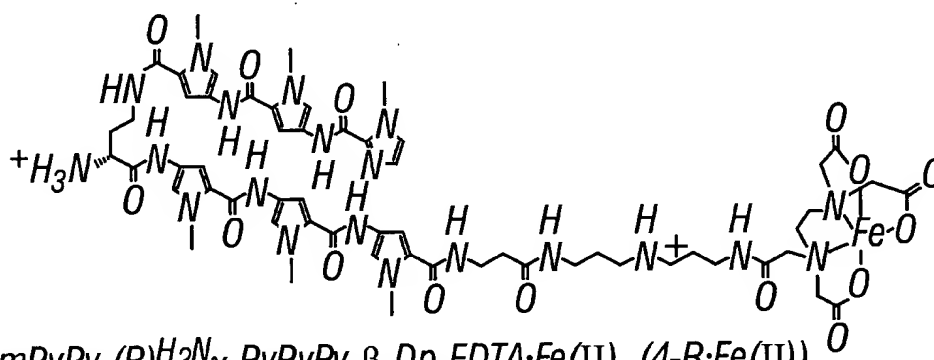


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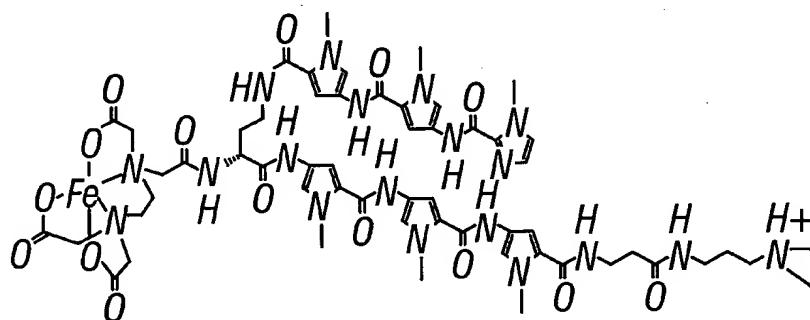
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FIG.	SUBCLASS



*ImPyPy-(R)<sup>H2N</sup>γ-PyPyPy-β-Dp-EDTA·Fe(II) (4-R·Fe(II))*

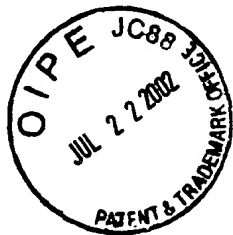
**FIG. 3D**



*ImPyPy-(R)<sup>EDTA·Fe</sup>γ-PyPyPy-β-Dp (5-R·Fe(II))*

**FIG. 3E**





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APPROV	FIG.
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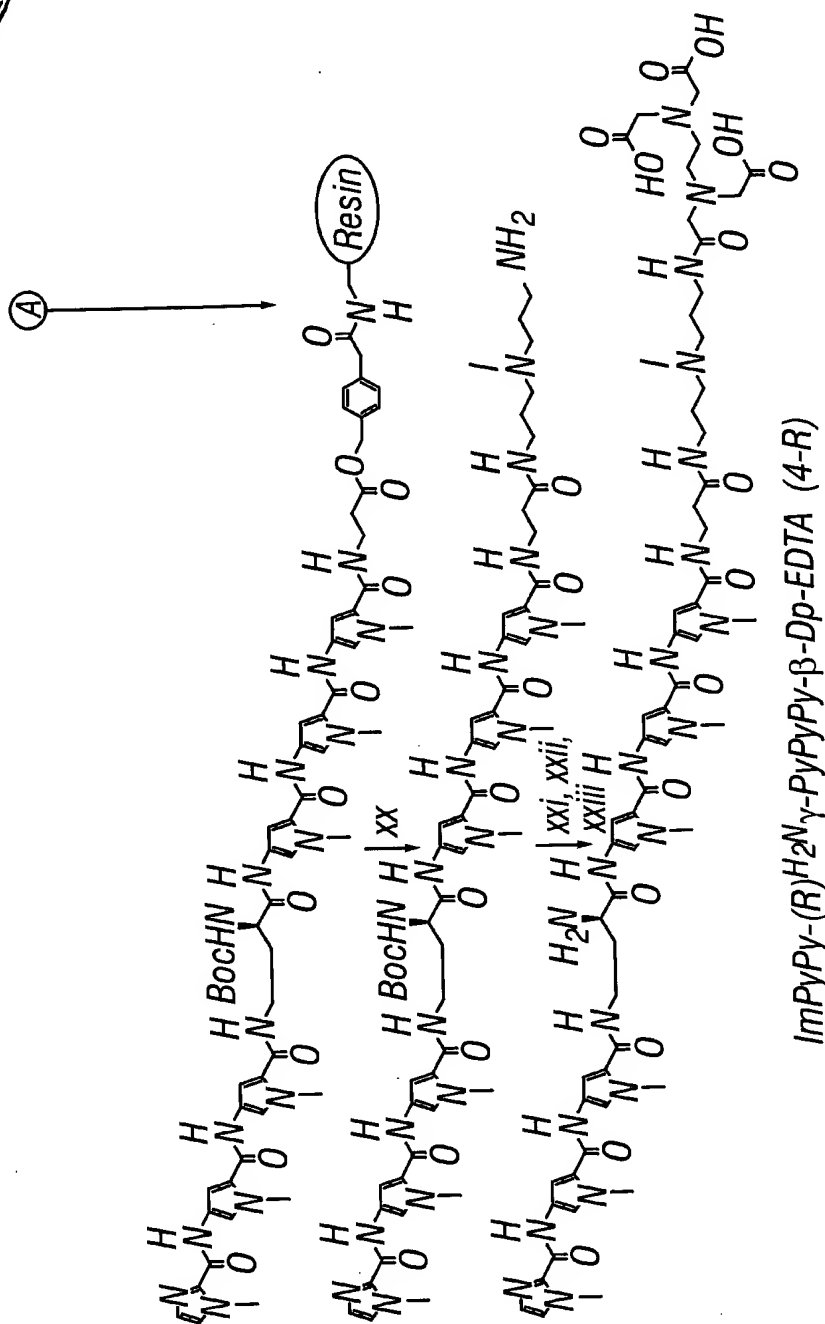
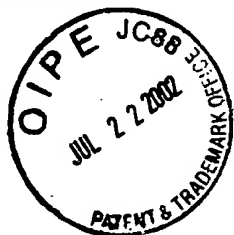


FIG. 4A-2



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*ImPyPy-(R)<sup>H2N</sup>-PyPyPy-β-Dp*

*ImPyPy-(R)<sup>AC</sup>-PyPyPy-β-Dp*

A G MPE 1.25 μM 10 μM CONTROL  
1 2 3 4 5 6 7 8

A G MPE 1.25 μM 10 μM CONTROL  
1 2 3 4 5 6 7 8

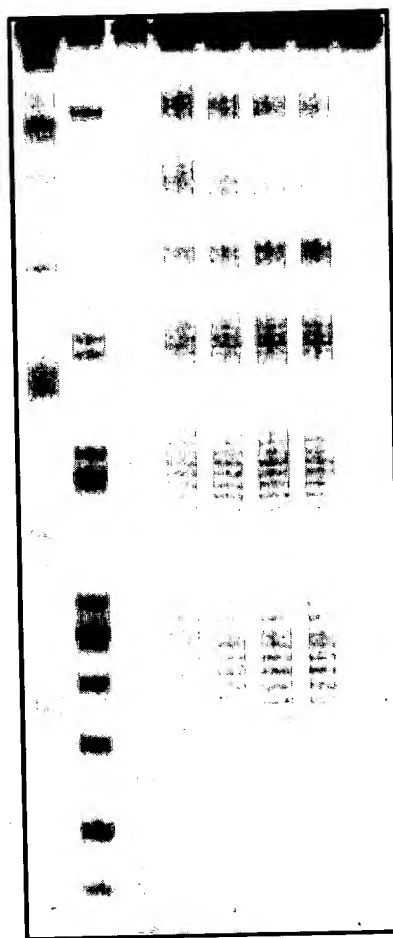
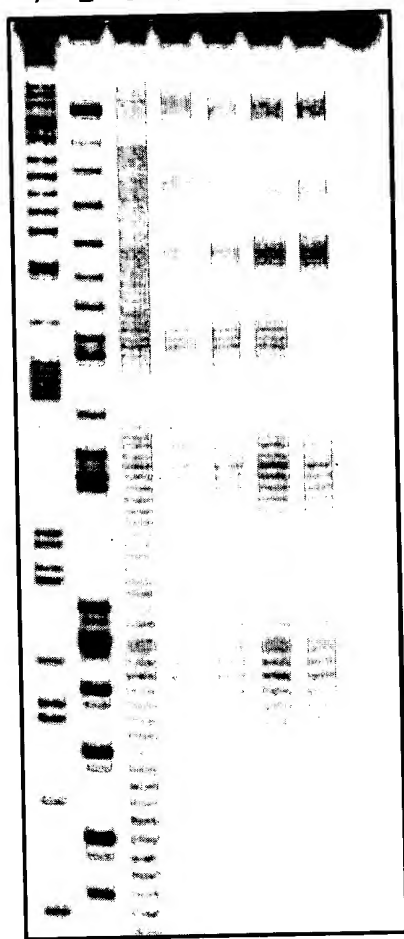
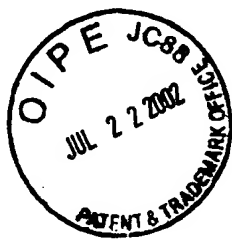


FIG. 5A

FIG. 5B



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*ImPyPy-(S)<sup>H2N</sup>-PyPyPy-β-Dp*

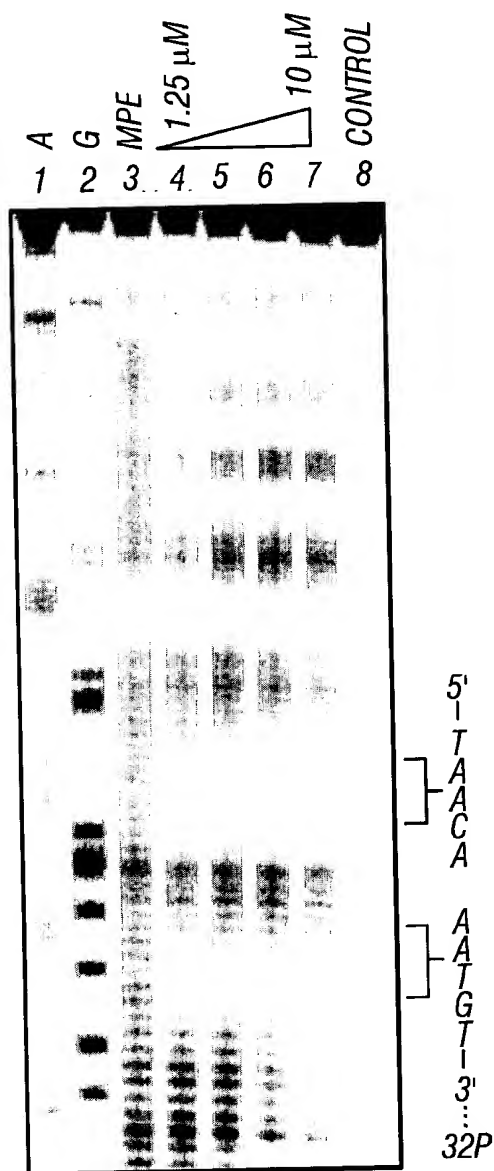


FIG. 5C

*ImPyPy-(S)<sup>AC</sup>-PyPyPy-β-Dp*

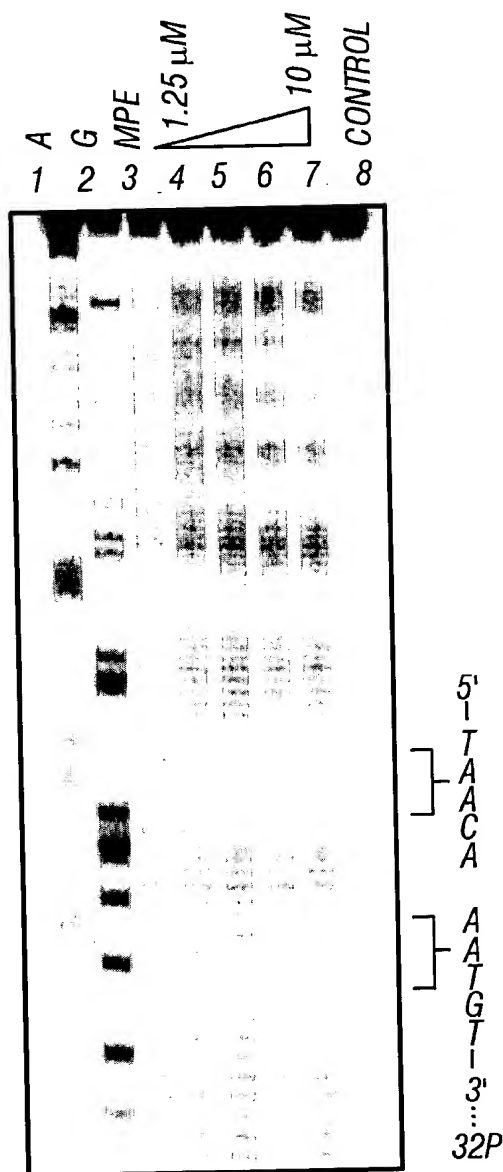
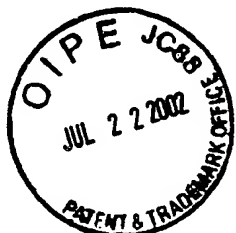


FIG. 5D

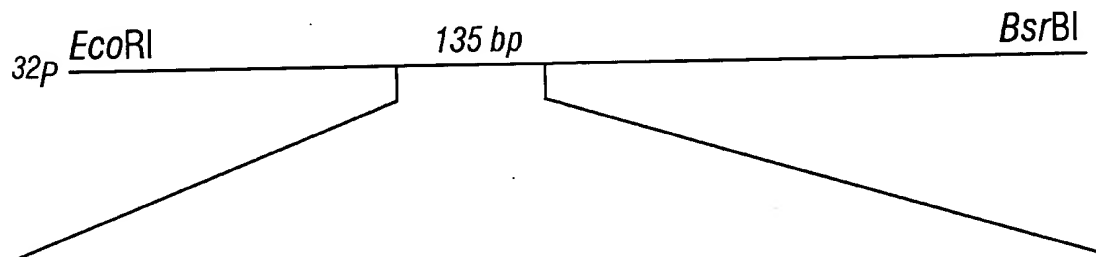




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*ImPyPy-(R)<sup>H2N</sup><sub>γ</sub>-PyPyPy-β-Dp (1.25 μM)*

32p 5'-GGATCCTCTAGAGTCGACATGACATTCGTCCACATTGTTAGACCACG-3'  
3'-CCTAGGAGATCTCAGCTGTACTGTAAGCAGGTGTAACAATCTGGTGC-5'

*ImPyPy-(R)<sup>AC</sup><sub>γ</sub>-PyPyPy-β-Dp (1.25 μM)*

32p 5'-GGATCCTCTAGAGTCGACATGACATTCGTCCACATTGTTAGACCACG-3'  
3'-CCTAGGAGATCTCAGCTGTACTGTAAGCAGGTGTAACAATCTGGTGC-5'

*ImPyPy-(S)<sup>H2N</sup><sub>γ</sub>-PyPyPy-β-Dp (1.25 μM)*

32p 5'-GGATCCTCTAGAGTCGACATGACATTCGTCCACATTGTTAGACCACG-3'  
3'-CCTAGGAGATCTCAGCTGTACTGTAAGCAGGTGTAACAATCTGGTGC-5'

*ImPyPy-(S)<sup>AC</sup><sub>γ</sub>-PyPyPy-β-Dp (2.5 μM)*

32p 5'-GGATCCTCTAGAGTCGACATGACATTCGTCCACATTGTTAGACCACG-3'  
3'-CCTAGGAGATCTCAGCTGTACTGTAAGCAGGTGTAACAATCTGGTGC-5'

FIG. 6



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FIG. 1  
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4-R • Fe(II)

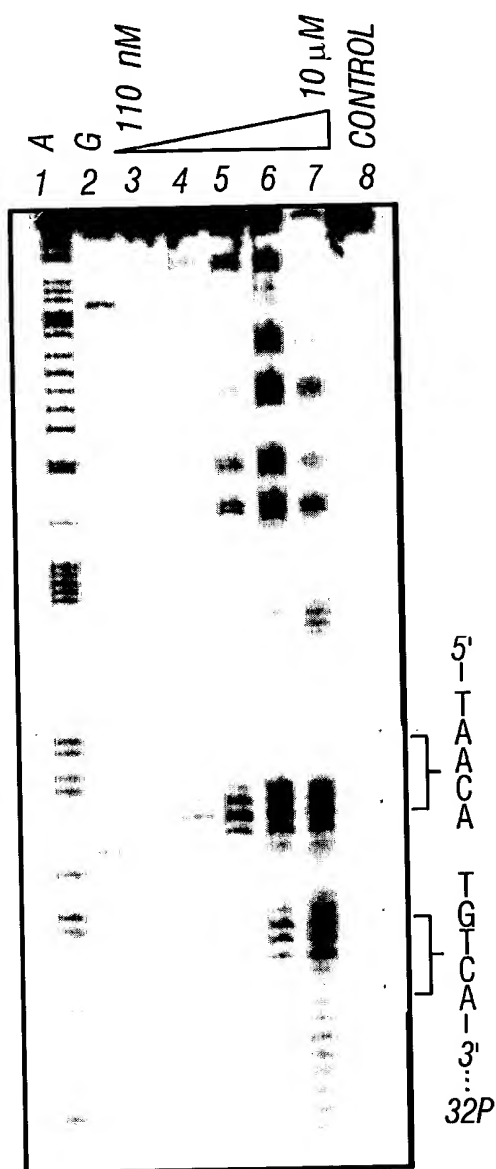


FIG. 7A

5-R • Fe(II)

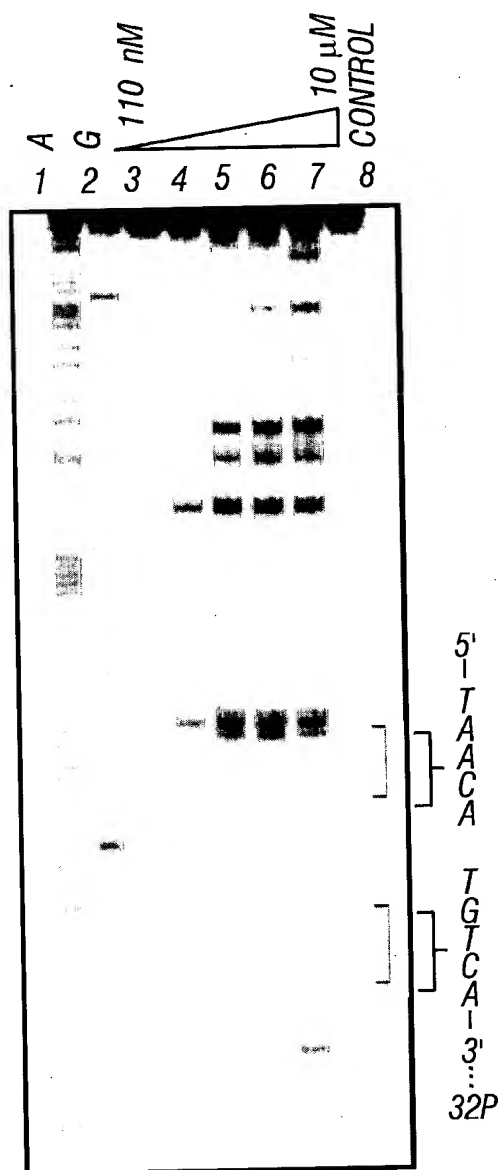
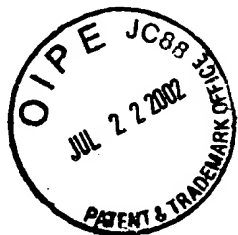


FIG. 7B



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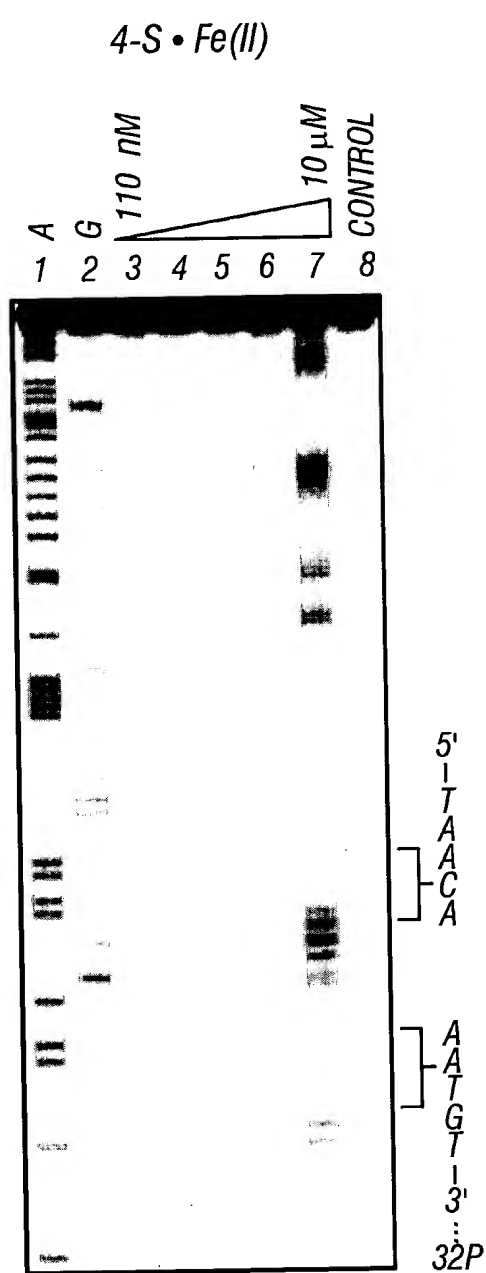


FIG. 7C

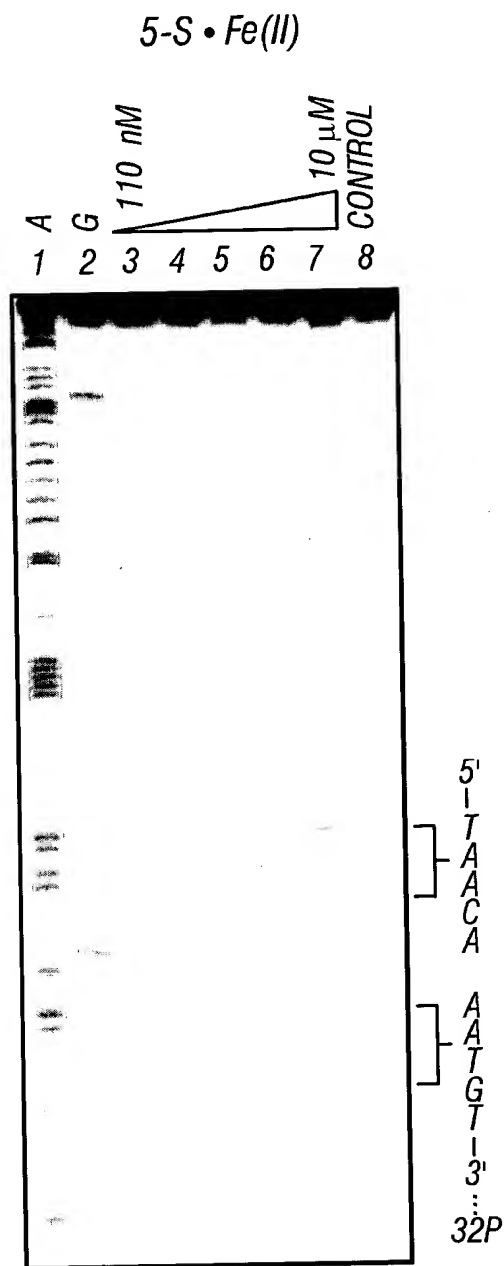
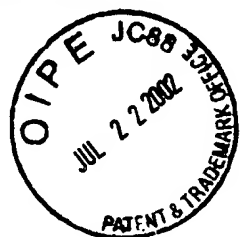


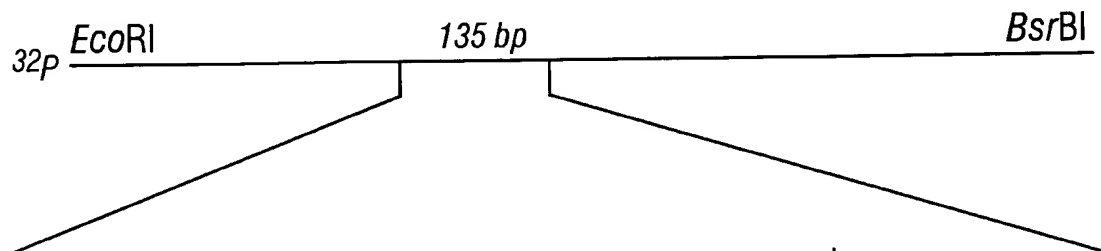
FIG. 7D



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4-R • Fe(II) (1  $\mu$ M)

32P 5'-GGATCCTCTAGAGTCGACAT **TGACAT**TCGTCCACATT**TGTTA**GACCACG-3'  
3'-CCTAGGAGATCTCAGCTGT**ACTGT**AAGCAGGTGTA**ACAAT**CTGGTGC-5'

5-R • Fe(II) (1  $\mu$ M)

32P 5'-GGATCCTCTAGAGTCGACAT **TGACA**TCGTCCACATT**TGTTA**GACCACG-3'  
3'-CCTAGGAGATCTCAGCTGT**ACTGT**AAGCAGGTGTA**ACAAT**CTGGTGC-5'

4-S • Fe(II) (10  $\mu$ M)

32P 5'-GGATCCTCTAGAGTCGACATG**ACATT**CGTCCACATT**TGTTA**GACCACG-3'  
3'-CCTAGGAGATCTCAGCTGTAC**TGTAA**GCAGGTGTA**ACAAT**CTGGTGC-5'

5-S • Fe(II) (10  $\mu$ M)

32P 5'-GGATCCTCTAGAGTCGACATG**ACATT**CGTCCACATT**TGTTA**GACCACG-3'  
3'-CCTAGGAGATCTCAGCTGTAC**TGTAA**GCAGGTGTA**ACAAT**CTGGTGC-5'

FIG. 8



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4-R • Fe(II)-5'-TGTTA-3' (1  $\mu$ M)

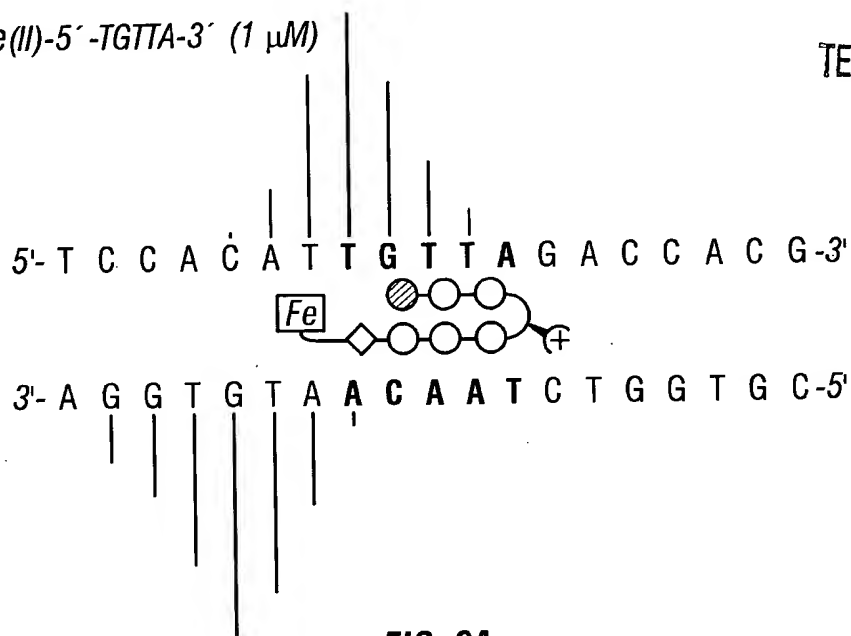


FIG. 9A

5-R • Fe(II)-5'-TGTTA-3' (1  $\mu$ M)

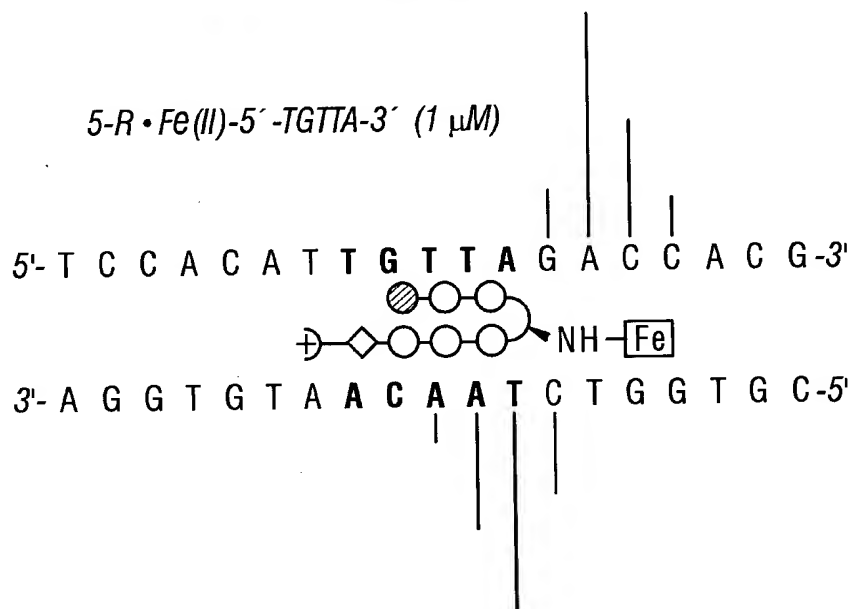


FIG. 9B

4-S • Fe(II)-5'-ACATT-3' (10  $\mu$ M)

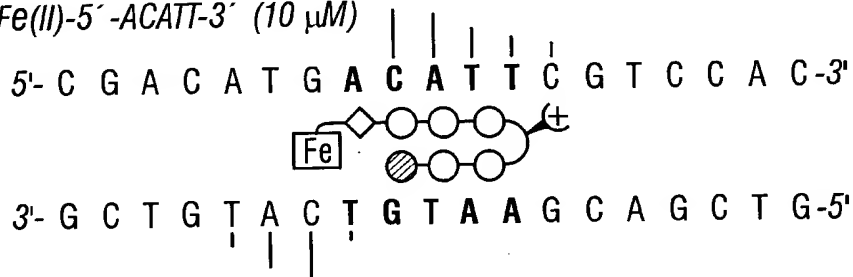
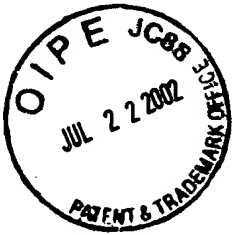


FIG. 9C



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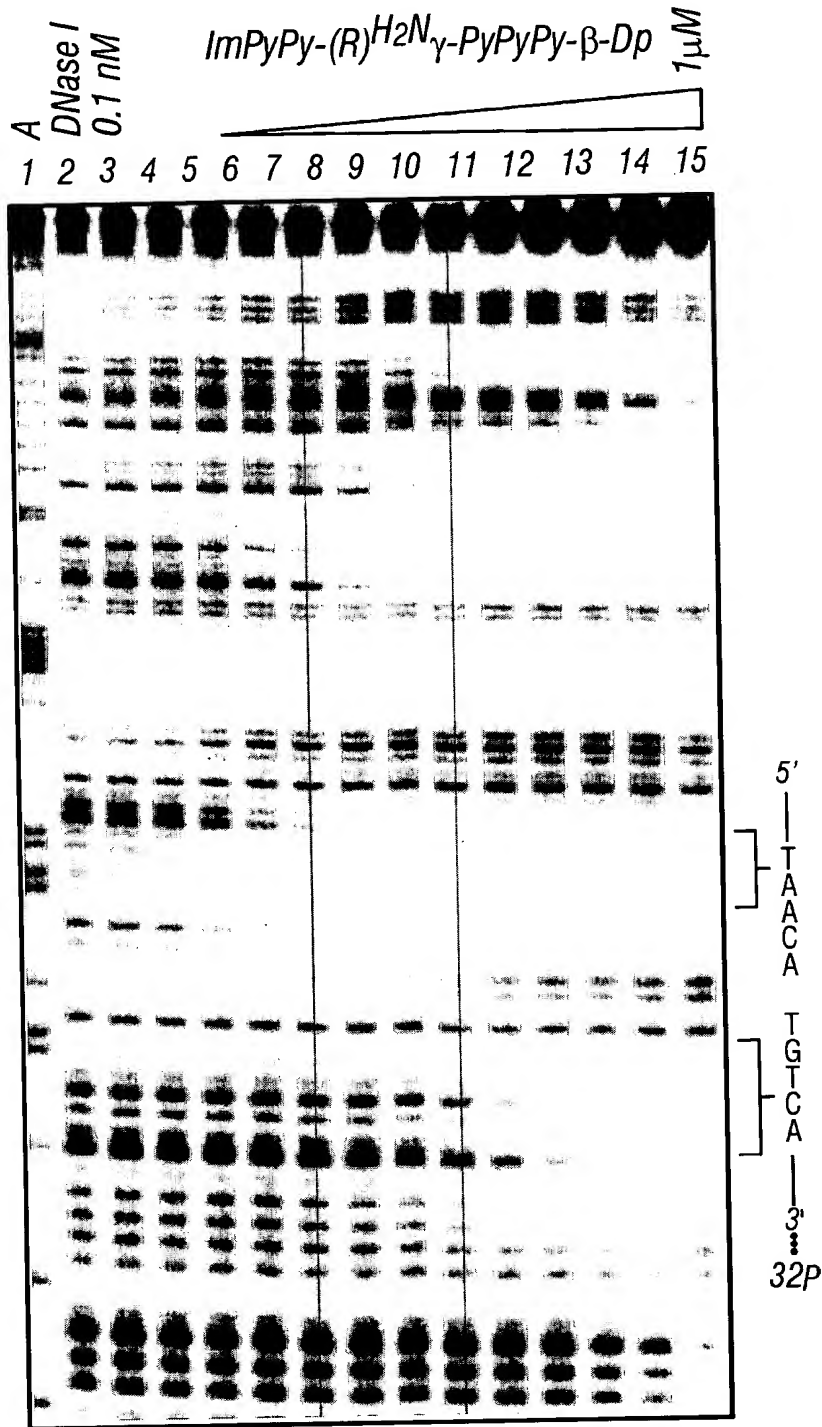


FIG. 10A



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FIG.	1
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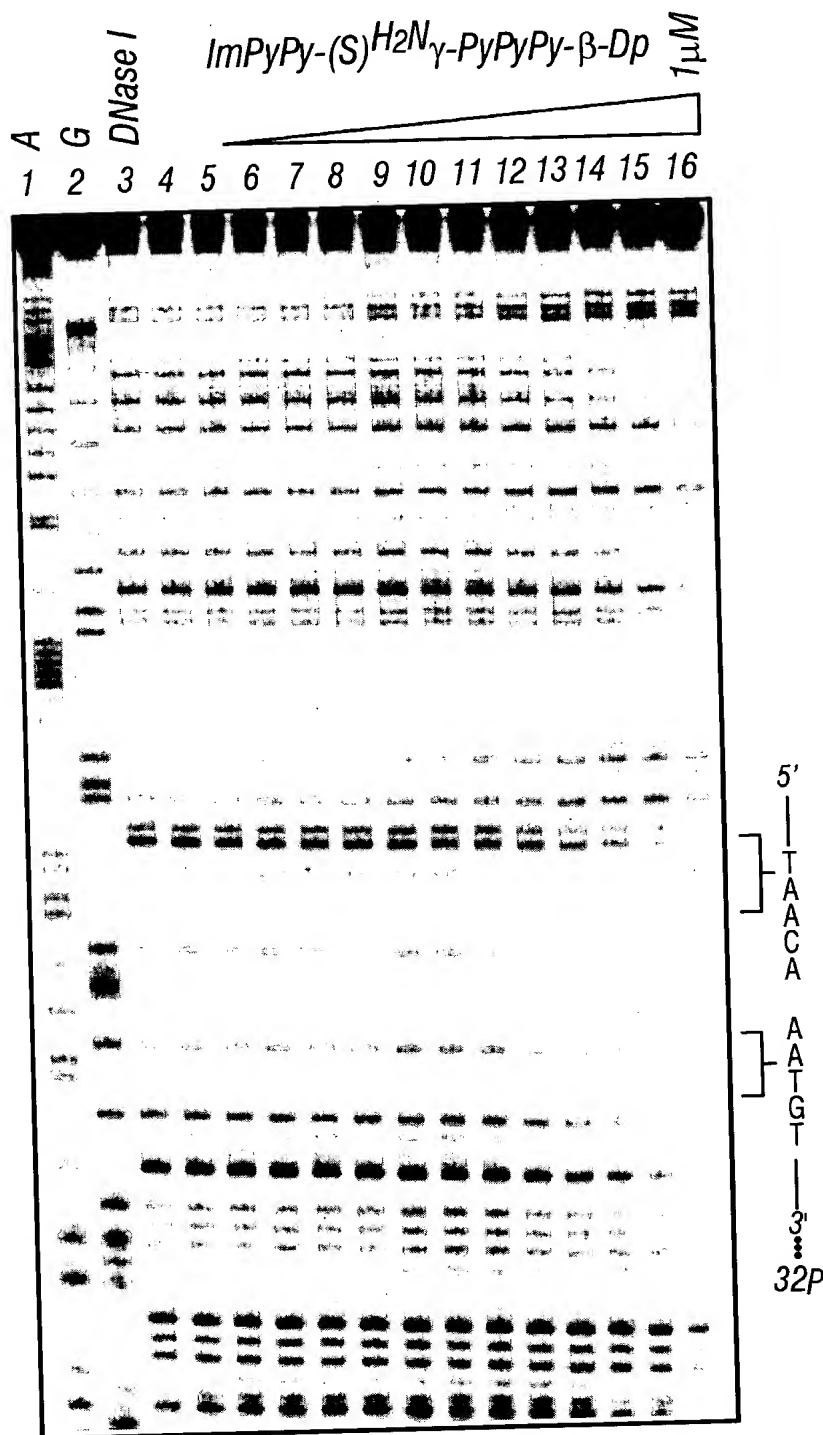


FIG. 10B



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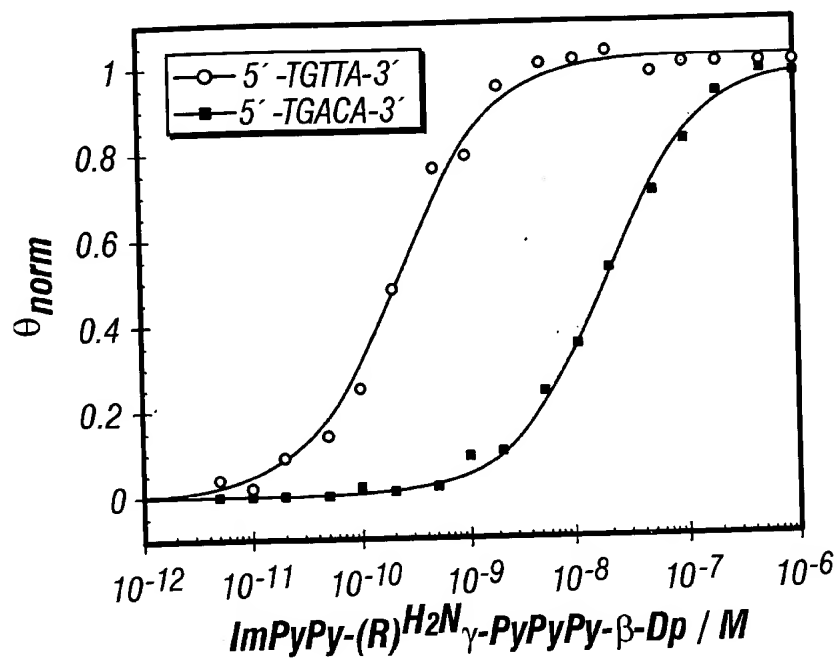


FIG. 11

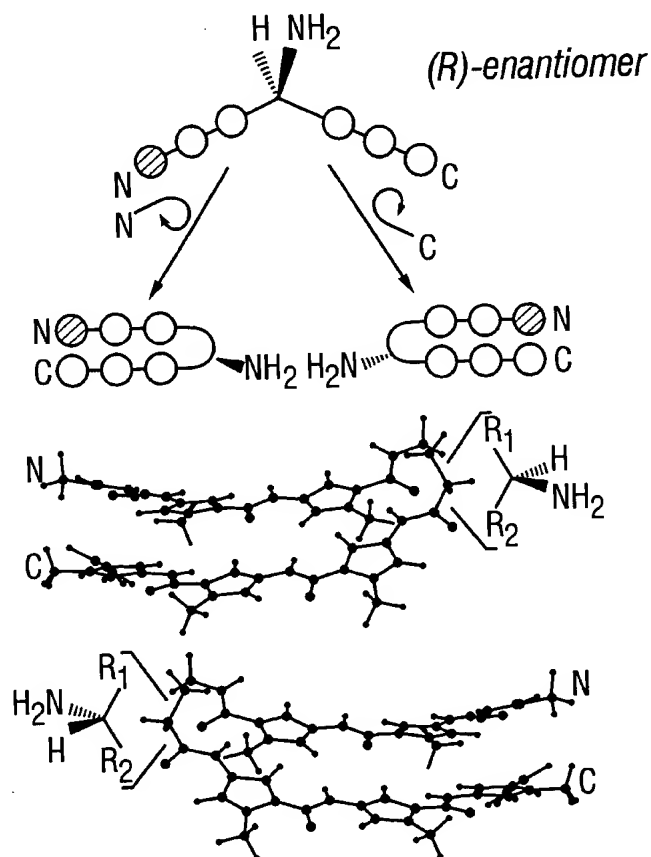
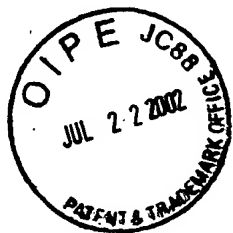


FIG. 12





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FIG.	CLASS
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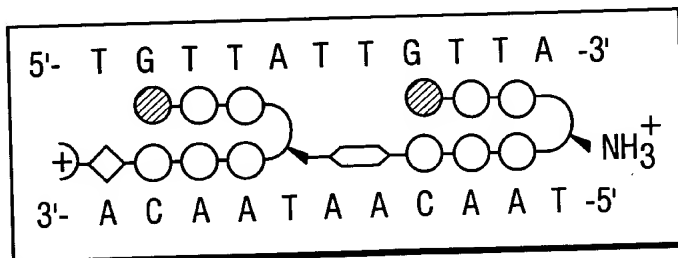
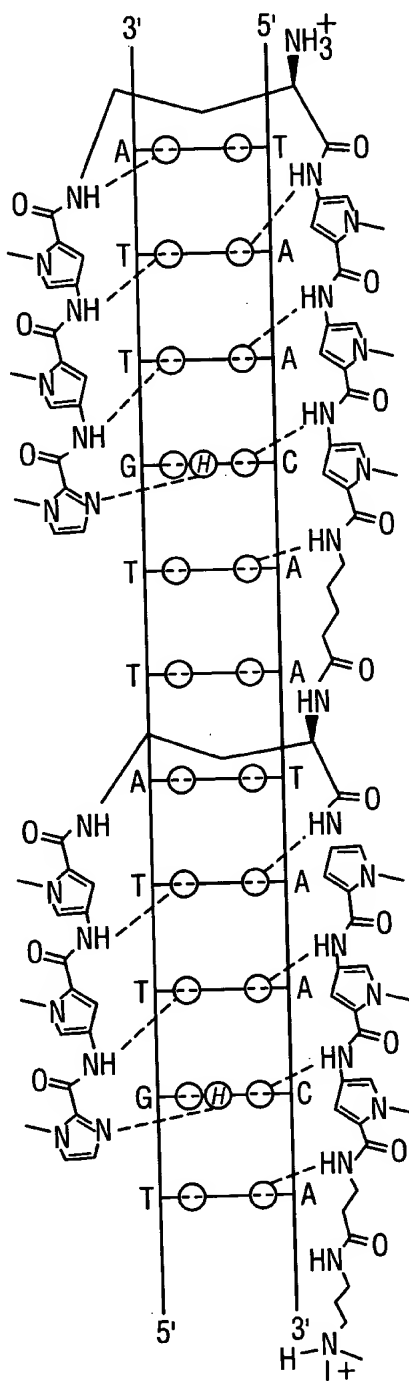


FIG. 13



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FIG. 14A  
BY  
DRAFTSMAN

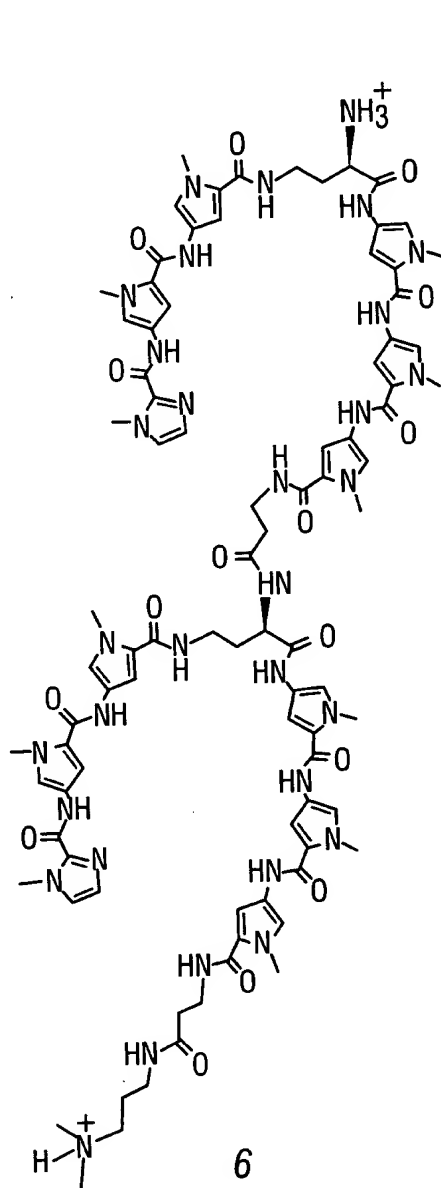


FIG. 14A

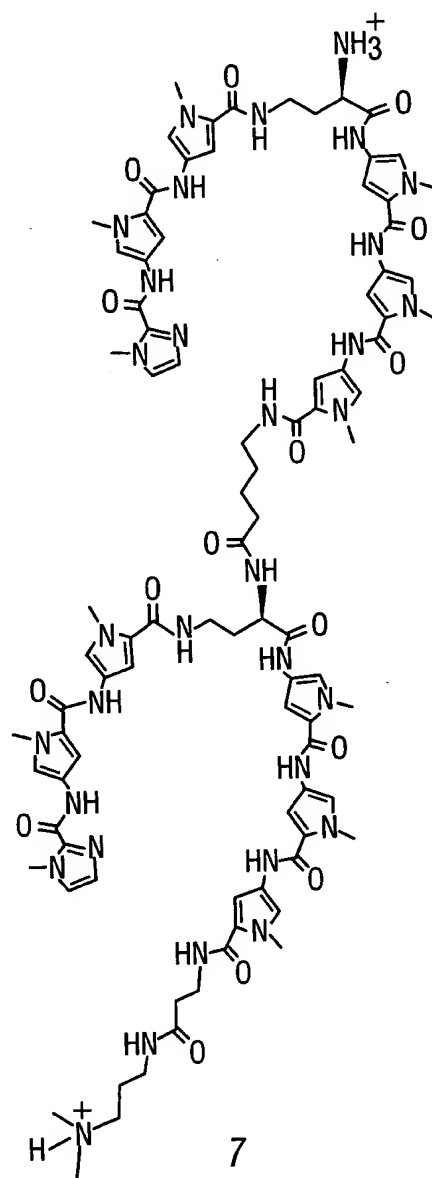
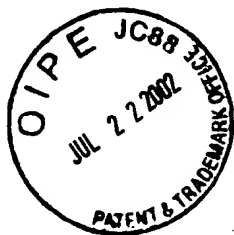
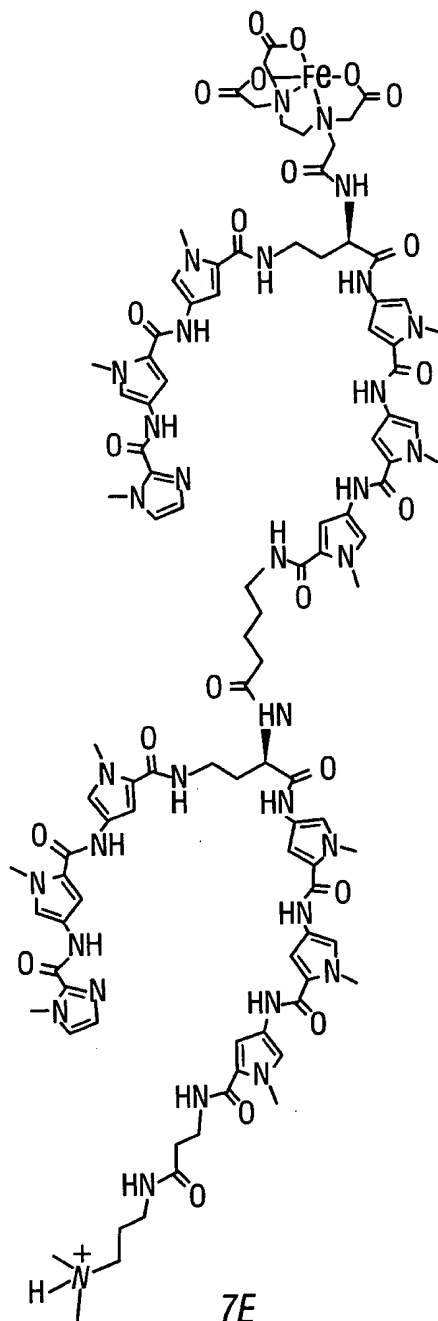


FIG. 14B



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**FIG.-14C**

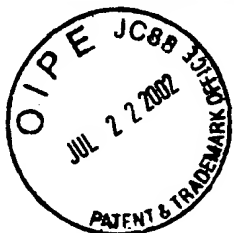
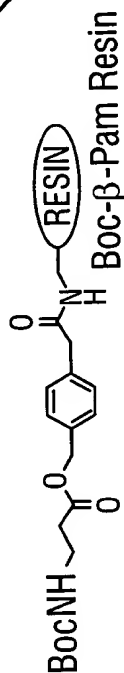
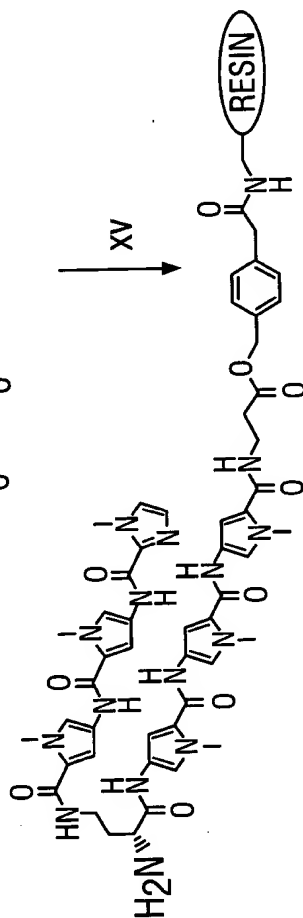
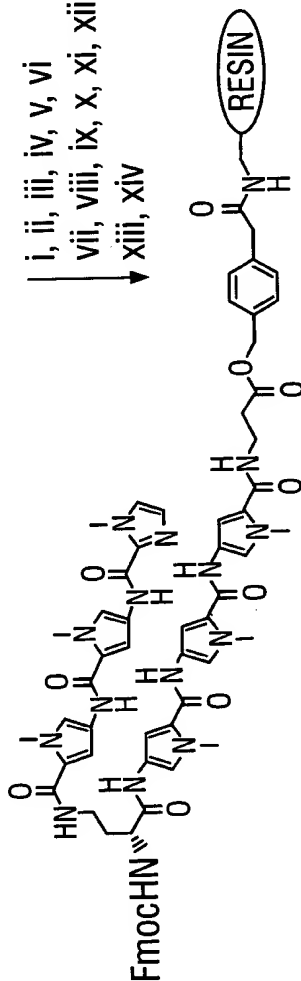


FIG. 15A  
CLASS  
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i, ii, iii, iv, v, vi  
vii, viii, ix, x, xi, xii,  
xiii, xiv



xv

xvi, xvii, xviii, xix, xx,  
xxi, xxii, xxiii, xiv, xxv,  
xxvi, xxvii, xxviii, xxix, xxx

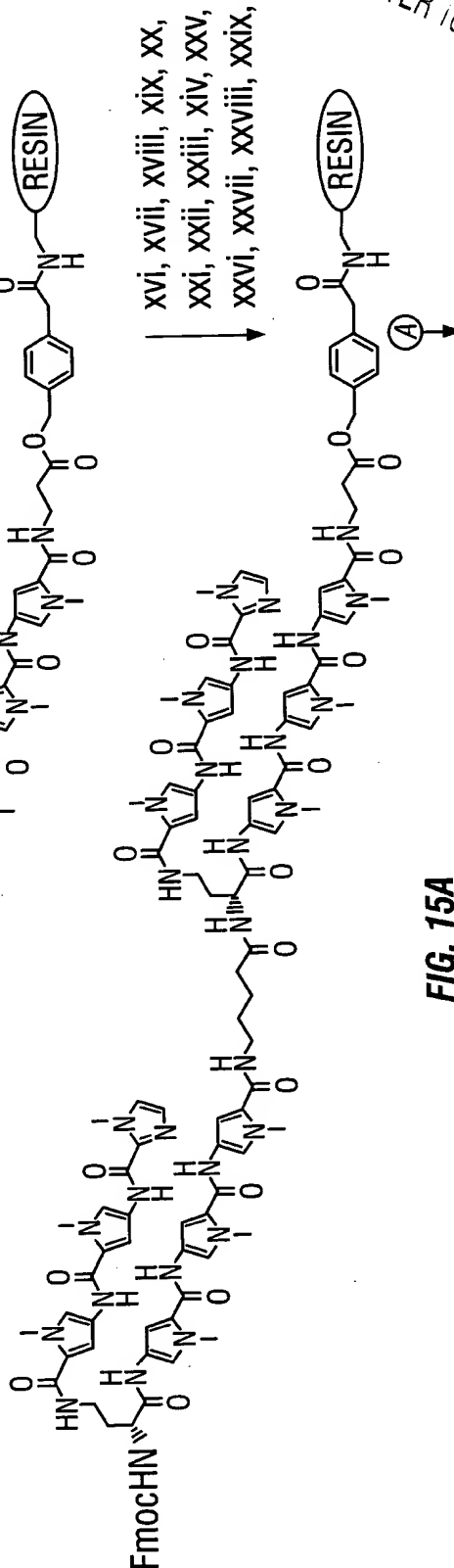
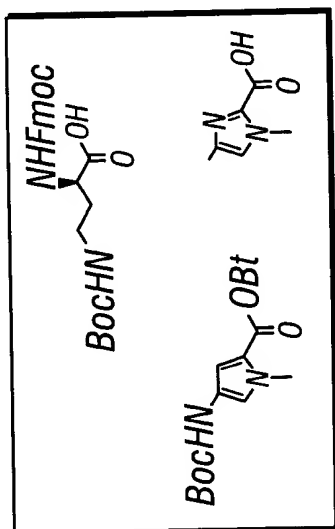


FIG. 15A

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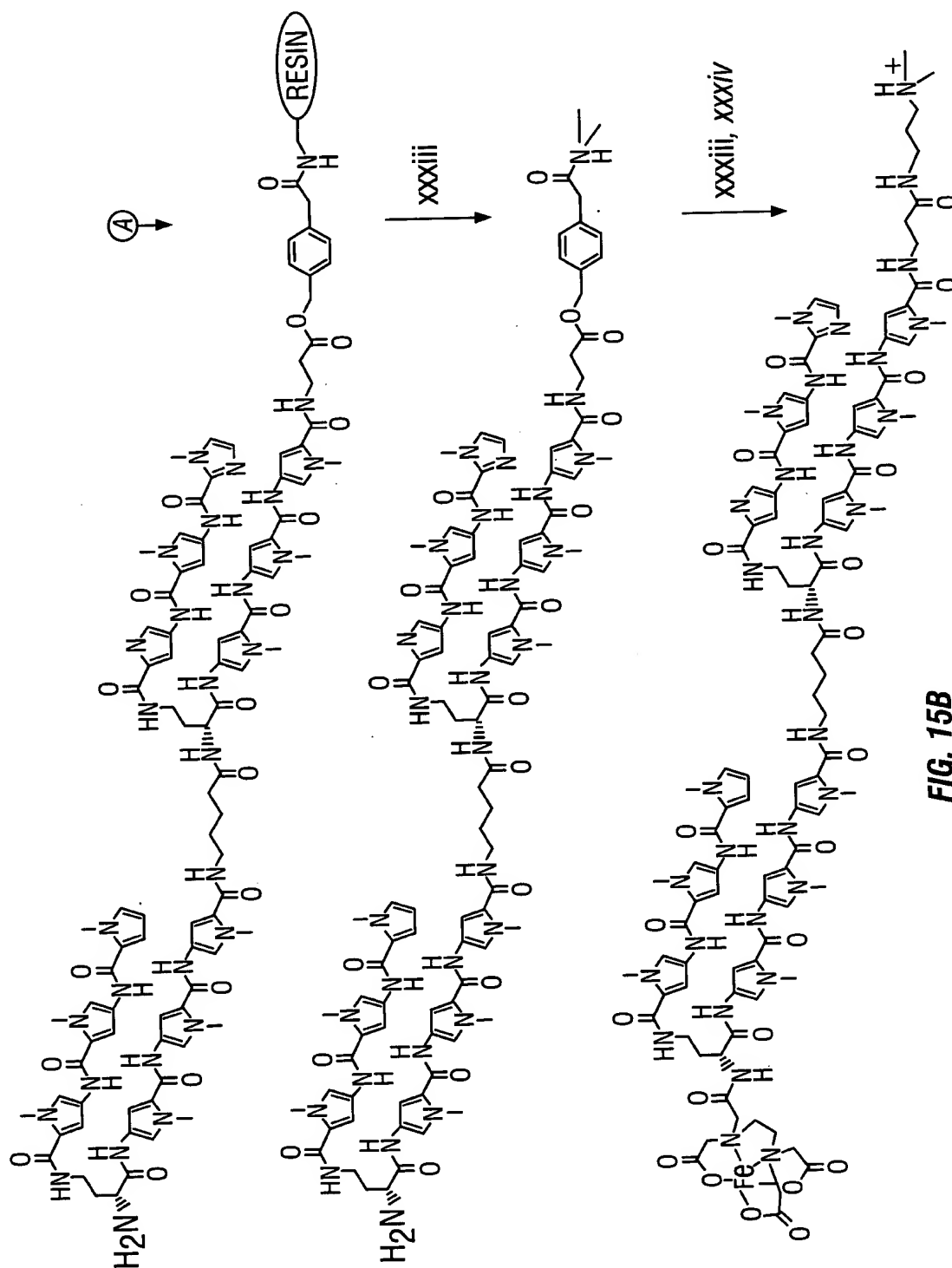
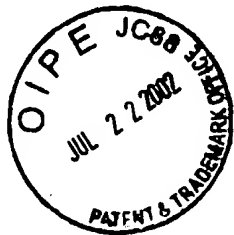


FIG. 15B



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FIG.  
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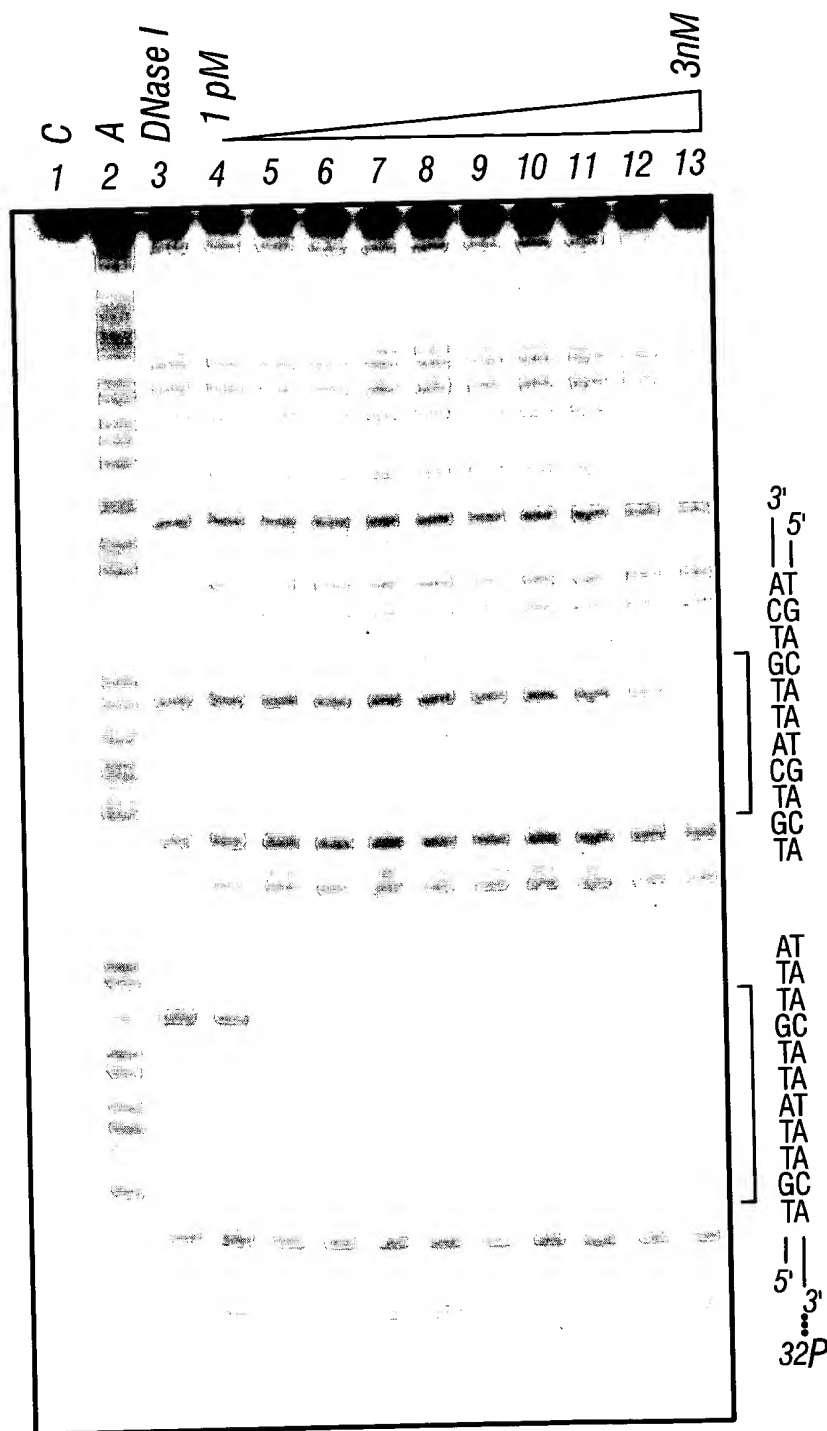


FIG. 16

FIG.	FIG.
CLASS	CLASS
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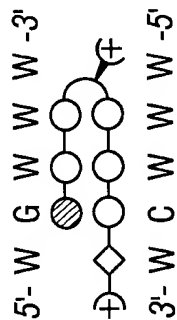
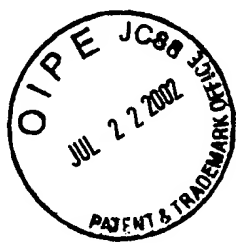


FIG. 17A

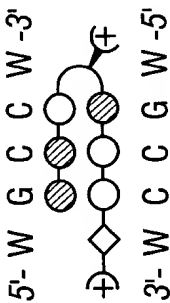


FIG. 17B

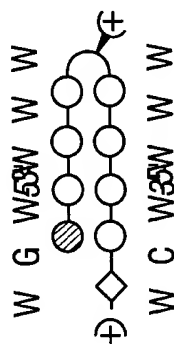


FIG. 17D

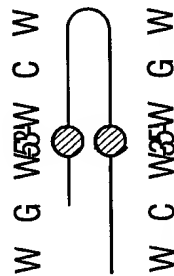


FIG. 17E

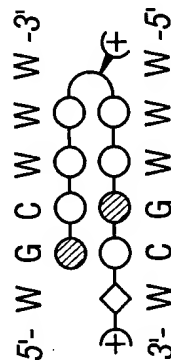


FIG. 17G

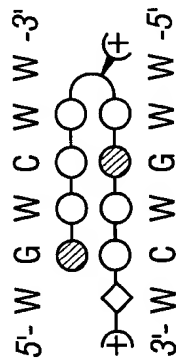


FIG. 17H

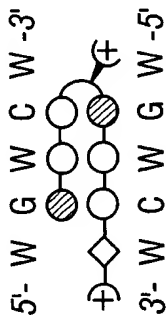


FIG. 17C

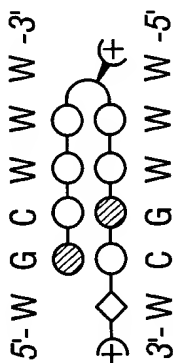


FIG. 17F

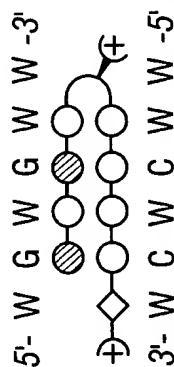


FIG. 17I

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FIG.	
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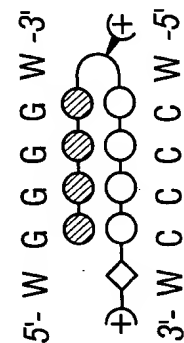
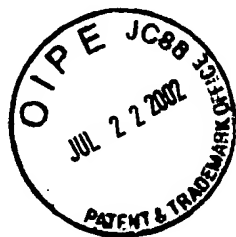


FIG. 17J

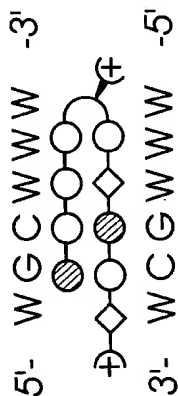


FIG. 17L

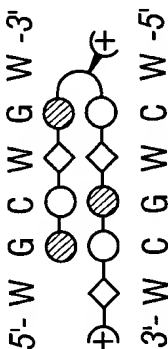


FIG. 17M

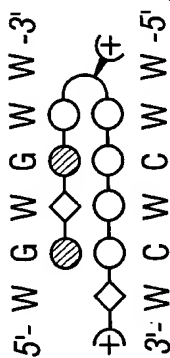


FIG. 17N

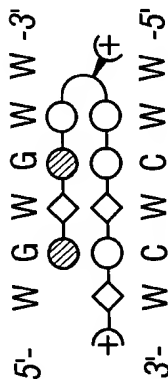


FIG. 17O

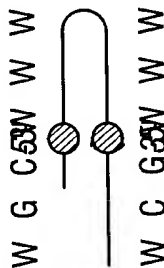


FIG. 17P

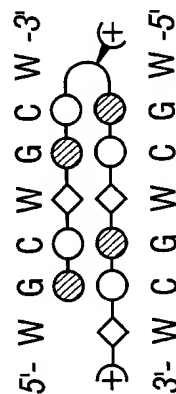


FIG. 17Q

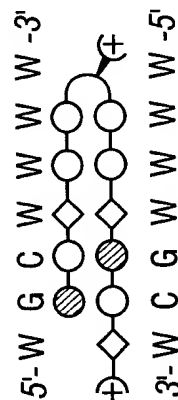


FIG. 17R

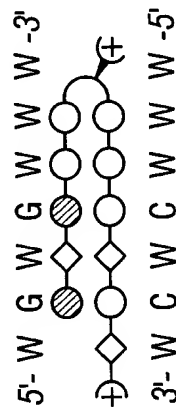


FIG. 17S

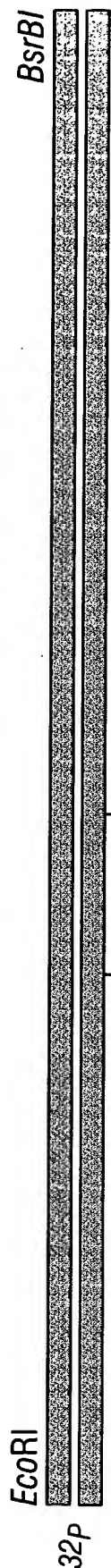
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APPROVED	FIG.
BY	DATE
SUBCLASS	
DRAFTSMAN	



10bp

5'-GAICGCCGAGGCCCTCATTTGTTATGTTAGCGAGGCCCTCATTTGTCATGTCAGCGAGGCCCTCATAGCT -3'  
32P 3'-CTAGCGCTCCGGAGTAAACAATACAATCGCTCCGGAGTAAACAGTACAGTCGCTCCGGAGTATCGA-5'

11bp

5'-GAICGCCGAGGCCCTCATTTGTTATGTTAGCGAGGCCCTCATTTGTCATGTCAGCGAGGCCCTCATAGCT -3'  
32P 3'-CTAGCGCTCCGGAGTAAACAATACAATCGCTCCGGAGTAAACAGTACAGTCGCTCCGGAGTATCGA-5'

12bp

5'-GAICGCCGAGGCCCTCATTTGTTATGTTAGCGAGGCCCTCATTTGTCATATGTCAGCGAGGCCCTCATAGCT -3'  
32P 3'-CTAGCGCTCCGGAGTAAACAATACAATCGCTCCGGAGTAAACAGTATACAGTCGCTCCGGAGTATCGA-5'

FIG. 18

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